

ABSTRACT

A hydrodynamic thrust bearing, particularly forming a part of a bearing system for a rotary bearing of spindle motors utilized to power hard disk drives. The thrust bearing includes at least one annular thrust plate and a counter bearing corresponding to the thrust plate, wherein the thrust plate is firmly connected to a shaft rotatably supported by means of a radial bearing system. The thrust plate is arranged on the shaft which has an axial bore in the area where the thrust plate is to be positioned. A fixing element affixing the thrust plate to the shaft is pressed into the axial bore of the shaft. The outer diameter of the fixing element is greater than the inner diameter of the axial bore. This type of press connection between the thrust plate and the shaft allows thinner thrust plates to be utilized with the performance of the thrust bearing remaining the same or improving.